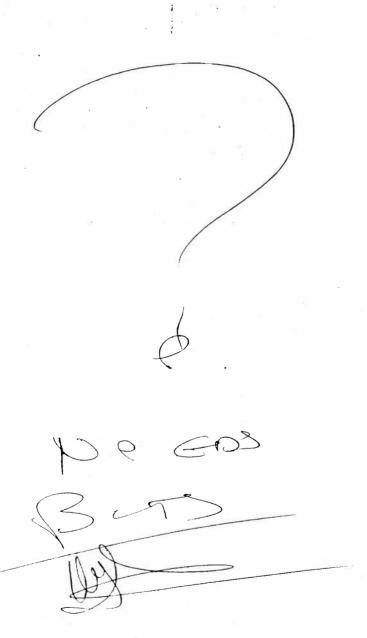


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****** LUNAR LANDER
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                               part 4
                                         ***********************
********************* by PETER CRACK ***********************

    → Howdy, Club Members,

    In this part we are going to deal with middle size sprite and the second

    serie of screens, these three screens each have three possible landing

• places which in turn lea to nine final screens. So as before load the
• programme into your computer and then type in MO7F8 move the cursor to
♦ byte number 07F8 and change the value to $$80, next type in FB000 DDFF 00
* and press return this will clear all those locations, now type in the code
• as follows, here is the explanation.
5168-516B Store 'X' reg (screen just left number) in $4EB7 and clear screen
516E-5180 Get last screen number, clear under sprite data areas, get new
          screen pointers and priint new screen base line.
5133-5101 Get old sprite angle and set to new sprite data area, calculate
          position of sprite in new screen, $4609.A,B hold old position
          $60,1,2, hold new position.
5103-51DD Get new sprite pointers and store them in working area, set new
         sprite page number in working area ($460D), and print sprite.
51E0-5259 Loop 2, this checks position, jumps to correct routines if the
          sprite moves off the screen or over a landing position and clears
          the sound registers then loops back to $51E0.
5300-5357 These are the positions of the plot points accross the screen high
          butes and are used in every screen.
5359	ext{-}53AF These are the positions of the plot points accross the screen low
          bytes and are used in screen one only.
53BO-53DF These are the status message and values bytes.
5400-5457 These are the positions of the plot points down the screen and are
          used in screen one only, the screen is one line drawn from left
          to right using the above co-ordinates.
5458-5462 Check if out of fuel jump to free fall if yes else....
5463-5491 Get joystick return, check value of $E8 if zero jump to free fall
5492-54CF Check to see if joystick is pushed forward (power on), if yes
          gosub get and compress fuel pointers into $50 and $50, check if
          both these pointers are zero if yes jump to free fall else switch
          on sound decrease fuel by one put gosub unpack pointers and put
          them back into status list, get sprite angle $5367, remove the
          four high bits leaving just the sprite angle shift it left and
         store it in $54D0 thus giving an address for the inndirect jump
          command in $54CF.
54D2-5527 This is a group of routines which alter certain ⊿delay pointers, to
         explain, the amount of vertical or horizontal thrust produced by
          the rocket motor is dependent on the angle of the rocket so 'X'
          and 'Y' registers are set accordingly these are them set into
         $53EA and $53EB for later use.
5228-5580 This routine updates the vertical speed, this is done every time
          the delay counter falls to minus, first get delay and reduce it by
          one, if still plus branch to $559D and do not change the status
         message, else reload delay with value in "X" register (after
         clearing the four high bits), if this value is $$05 them the
         rocket is horizontal and the motor will exert no vertical force
         so jump past the next part of the routine, again transfer the ^{\prime}\%^{\prime}
         to 'A' registers shift it left and if the carry flag is now set
         then the force exerted is downwards so branch to $556A, at this
         point that the rocket motor is on and that the rocket is pointed
         upwards, now we must find out if the rocket is moving up or doown
         or is doing neither, remember this routine is only checking
         vertical movement, within the status message just after the vert. speed indicator are two characters YUP', YDD' or '++' for up
         down or hover, this last will not be on screen for long as rockets do not hover very well, these characters are at $53D2 and $53D3
         these pointers are now checked and the apropriate action taken if
         this results in the speed reaching zero subroutine $5660 sets
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55AO-55FF This routine is the same as above but for the horizontal direction
5600-561C Get and compress fuel or speed pointers, the pointers are decimal
           numbers (0-9), and are stored in ASCII format so by stripping off
           the four high bits which must always be 3 or 2 if char is a space
           we can take four numbers and compress them into two butes 'Y' req
           holds the offset for getting the pointers and 'X' reg for putting
           them into $5C and $5D
5622-562F Increase pointers by one.
5630-564C Unpack pointers and return them to the status message.
5652-565F Decreasse the pointers by one.
5660-566F Check if pointers have reached zero and put '**' into status
           message if yes, this is for vertical speed.
5670-567F Do the same for the horizontal speed.
5680-5683 Much used combo???.
5700-571F Address table for indirect jump at $54CF.
5720-5733 Print 'RI' in message table for horizontal speed, gosub equal
           check and put a space character in the thousand column of the
           number.
5735-573B As above but print 'LE'.
5745-574D Check if joystick pushed left or right and move to correct routine
           if neither then jump to $5873.
5752-5774 This routine reduces the rotation speed by one until it reaches
           zero then it prints '++' in the rotate speed indicator.
5775-579D Joystick is pushed left, check if rocket is rotating right if
           yes branch to $5752 and reduce speed, else increase rotation speed
           next qosub check if speed now zero finaly check if characters
           after speed =+ if yes print 'LE'.
57A0-57C9 Joystick is pushed right, carry out the same as above but for
           right rotation.
57D0-5827 This routine is for free fall ie. no fuel left and emulates the
           pull of gravity if the rocket is going up then the speed is
           gradualy reduced until it is stopped them it is increased until it
           hits the ground.
5830-5872 This routing gradualy reduces horizontal movement to zero.
5873-586E This is the start point of the above routine
5990-59AF When the joystick is moved left or right small thrusters on the
           side of the rocket are fired (these are too small to see on screen
          handy eh!!), and the fuel they use is deducted from that available using this routine, $53EF is the delay counter, $50C is the delay
           reload and by modifying the routine at $5499 we can use it to
           decrease the fuel pointers by one.
58BO-58BC I cannot remember what this does.
5A00-5BAF Two more sets of coorinates for plotting the base lines of screens
           in both pages 00 to 57 are the positions down the screen and 58 to
          AF are the positions accross the screen, remember that the high
           bytes of the positions accross the screen are always taken from
          $5400 to $5457.....
DD00-DDFF These are the data areas (one page each 255 bytes), for the
           largest rocket sprite (you can ignore the last eight butes these

    are for the sprite creator programme and have no use in this one).
    And once again that is it for this month to save the programme so far

◆ first check that location $07F8 is set to #$80 and then type in.......
◆ S'progname',8,4000,5BBO and press return them S'progname',8,9000,DDFF and
◆ press return, change 8 to 1 in each case for a tape save if you wish to
 verify each save then type in V'progname',8 and press return after each

    save has been made, do not run the programme between save and verify

◆ because unlike a BASIC programme parts of the coding will be changed as it

    runs in BASIC this is done using variables which are cleared before a save

◆ or verify is carried out leaving the BASIC listing as before, there are no

    such variables in assembly code.

    if you have any queries or suggestions please write in to the magazine or

ullet phone me on 081-367-3152 (but in any case write in to the magazine as RDY
 needs your letters).
                            PETER CRACK.....
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	. 518 . 518 . 518 . 518 . 510 . 510	AE 0	000 46 000 46 000 46 000 46 000 41 000 41 000 42 000 42 000 45 000 45	LDX \$460D CPX #\$R0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$FF LDY #\$1F JSR \$4R00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4R0B LDA #\$4E STA \$410F S		. 5259 . 5256 . 5256 . 5300 . 5310 . 5318 . 5320 . 5338 . 5330 . 5338 . 5340 . 5350 . 5358 . 5360 . 5368 . 5378 . 5378 . 5380 . 5388	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 01 01 01 01 01 01 01 04 49 40 49 40 69 60 86 89 83 86 86 8D	BRK BRK	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 01 01 01 18 1C 33 38 58 5C 72 7A 90 93 R6 A9 C3 C6	00 00 00 00 00 00 00 00 01 20 40 60 7C 96	::::::::::::::::::::::::::::::::::::::
	. 518 . 518 . 518 . 518 . 518 . 516 . 516 . 516 . 516 . 516 . 516 . 516 . 516 . 516 . 518	B AE (8 BO F BO	000 46 000 46 000 46 000 46 000 46 000 41 000 40 000 40 000 46 000 40 000 46 000 46	LDX \$460D CPX #\$R0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$EF LDY #\$1F JSR \$4R00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4R0D JSR \$410F STA \$410F STA \$410F STA \$410F STA \$4265 JSR \$4265		. 5259 . 5256 . 5256 . 5300 . 5310 . 5318 . 5320 . 5338 . 5340 . 5348 . 5350 . 5368 . 5370 . 5378 . 5388 . 5388 . 5388 . 5390	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 01 01 01 01 01 09 00 29 20 49 40 69 60 86 89 R6 B6 B6 B6 B6 B6	BRK BRK 0 000 0 000 0 000 0 000 0 000 0 000 0 0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 01 01 01 18 1C 33 38 58 5C 72 7A 90 93 R6 A9 C3 C6 DC E0	00 00 00 00 00 00 00 01 20 40 60 76 60 76 60 76	::::::::::::::::::::::::::::::::::::::
	. 51	B AE (B BO F B	000 46 000 46 000 46 000 46 000 46 000 46 000 46 000 46 000 40 000 46 000 46	LDX \$460D CPX #\$A0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$8F LDY #\$1F JSR \$4A00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$440B LDA #\$45 STA \$410F STA \$410F STA \$410F STA \$410F STA \$410F STA \$410F LDA #\$45 LDA #\$45 LDA #\$45 LDA #\$45 LDA #\$45 LDA \$450B LDA \$450B LDA \$450B LDA \$450B LDA \$460B CMP #\$38	,× ,×	73378	EH EU	FU F3	10	トラ トし		: ILDSVU:
	. 518 . 518 . 518 . 518 . 518 . 510	AE 0 BO 0 B	000 46 0000 00	LDX \$460D CPX #\$R0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$FF JSR \$4R00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4R0B LDA #\$410F STA \$410F STA \$410F STA \$4100 JSR \$4265 JSR \$4000 JSR \$44000 JSR \$44000 JSR \$4505 LDX \$4	-	73378	EH EU	FU F3	10	トラ トし		: ILDSVU:
	. 51	B	000 46 000 46 000 46 000 46 000 46 000 47 000 46 000 46 000 46 000 46 000 46	LDX \$460D CPX #\$R0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$8F LDY #\$1F JSR \$4R00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4R0B LDA #\$4E STA \$410F S		>5398	00 08	0C 10	13	16 19	10	: Jibson:
	. 51E	AE (BE AE	000 46 000 46 000 46 000 46 000 46 000 46 000 40 000 40	LDX \$460D CPX #\$R0 BCS \$51C1 LIA #\$08 STA \$62 LDX #\$RF LDX #\$RF LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4400B LDA #\$4E STA \$410F	-	>5398 >53A0 >53A8	00 08 20 23	0C 10 26 29	13	16 19 30 38	1C 3F	: 03.), 0E
	. 51E	AE (BB E0 FB B0 C FB B0 C B0 C B0 C B0 C B0 C B0	000 46 000 46 000 46 000 46 000 47 000 47 000 47 000 47 000 47 000 46 000 46 000 46	LDX \$460D CPX #\$A0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$EF LDY #\$1F JSR \$4A00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4A0B LDA #\$4E STA \$410F S		>5398 >53A0 >53A8 >53B0	00 08 20 23 52 4F	0C 10 26 29 54 41	13 20 54	16 19 30 38 45 20	1C 3F 20	: 01 psvg: : 03, 06 : ROTATE
	. 51E . 51F . 51F	AE 0	000 46 000 46 000 46 000 46 000 47 00	LDX \$460D CPX #\$R0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$FF LDY #\$1F JSR \$4R00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4R0B LDA #\$460D JSR \$4R0B LDA #\$45 STA \$410F		>5398 >53A0 >53A8 >53B0 \$53B8	00 08 20 23 52 4F 30 30	0C 10 26 29 54 41 28 28	13 20 54 46	16 19 30 38 45 20 55 45	1C 3F 20 4C	: 03),08 :RUTATE :00++FUE
	. 51E . 51F . 51F . 51F	AE (B B E O F B B O C F B B D C F B D C B D C B	000 46 000 000 000 000 000 000 000 000 000 00	LDX \$460D CPX #\$R0 BCS \$51C1 LDA #\$08 STA \$62 LDX #\$8F LDY #\$1F JSR \$4R00 LDX #\$47 LDY #\$0F PLA STA \$460D JSR \$4R0B LDA #\$4E STA \$410F S		>5398 >53A0 >53A8 >53B0 >53B8 >53C0	00 08 20 23 52 4F 30 30 20 20	0C 10 26 29 54 41 2A 2A 30 35	13 20 54 46 31	16 19 30 38 45 20 55 45 30 20	1C 3F 20 4C 20	: 01 psvg: : 0%), 08 :RUTATE : 00++FUE : 0510
	. 51El . 51F . 51F . 51F . 51F	BO (90 5) AD (65 FO (67 4C F) AD (67	02 54 04 46 03 80 58 09 46	BCS \$51F2 BCC \$5246 LDA \$4604 BEQ \$51FA JMP \$5BB0 LDA \$4609		>5398 >5380 >5380 >5388 >5300 >5308	00 08 20 23 52 4F 30 30 20 20 56 45	0C 10 26 29 54 41 2A 2A 30 35 52 54	13 20 54 46 31 20	16 19 30 38 45 20 55 45 30 20 20 30	1C 3F 20 4C 20	: 01 psvg: : 02),08 :RUTATE : 00++FUE : 0510 :YERT 0
	. 51El . 51F . 51F . 51F . 51F	BO (90 5) AD (65 FO (67 4C F) AD (67	02 54 04 46 03 80 58 09 46	BCS \$51F2 BCC \$5246 LDA \$4604 BEQ \$51FA JMP \$5BB0 LDA \$4609		>5398 >5380 >5380 >5388 >5300 >5308	00 08 20 23 52 4F 30 30 20 20 56 45	0C 10 26 29 54 41 2A 2A 30 35 52 54	13 20 54 46 31 20	16 19 30 38 45 20 55 45 30 20 20 30	1C 3F 20 4C 20	: 01 psvg: : 02),08 :RUTATE : 00++FUE : 0510 :YERT 0
·	. 51El . 51F . 51F . 51F . 51F	BO (90 5) AD (65 FO (67 4C F) AD (67	02 54 04 46 03 80 58 09 46	BCS \$51F2 BCC \$5246 LDA \$4604 BEQ \$51FA JMP \$5BB0 LDA \$4609		>5398 >5380 >5380 >5388 >5300 >5308	00 08 20 23 52 4F 30 30 20 20 56 45	0C 10 26 29 54 41 2A 2A 30 35 52 54	13 20 54 46 31 20	16 19 30 38 45 20 55 45 30 20 20 30	1C 3F 20 4C 20	: 01 psvg: : 02),08 :RUTATE : 00++FUE : 0510 :YERT 0
	. 51El . 51Fl . 51Fl . 51Fl . 51Fl . 51Fl . 520	BO (0 90 5 PO (0 PO 1) PO (1)	02 54 04 46 03 80 58 59 46 17 08 46 38 46	BCS \$51F2 BCC \$5246 LDA \$4604 BEQ \$51FA JMP \$5BB0 LDA \$4609		>5348 >5348 >5386 >5386 >5388 >5306 >5308 >5308 >5308 >5308 >5308	00 08 20 23 52 4F 30 30 20 20 56 45 32 20 20 20 10 55	0C 10 26 29 54 41 2A 2A 30 35 52 54 44 4F 30 30 00 56	13 20 54 46 31 20 48 30	16 19 30 38 45 20 55 45 30 20 30 4F 52 20 2A 57 00	1C 3F 20 4C 20 30 49 2A 00	: J1psvg: : 0%),08 :ROTATE : 000++FUE : 0510 :VERT 0 :2 DOHOR : 000 +
	. 51El . 51F . 51F . 51F . 51F	BO (0 90 5 PO (0 PO 1) PO (1)	02 54 04 46 03 80 58 09 46 17 08 46 38 4E	BCS \$51F2 BCC \$5246 LDA \$4604 BEQ \$51FA JMP \$5BB0 LDA \$4609	.×	>5348 >5348 >5386 >5386 >5388 >5306 >5308 >5308 >5308 >5308 >5308	00 08 20 23 52 4F 30 30 20 20 56 45 32 20 20 20 10 55	0C 10 26 29 54 41 2A 2A 30 35 52 54 44 4F 30 30 00 56	13 20 54 46 31 20 48 30	16 19 30 38 45 20 55 45 30 20 30 4F 52 20 2A 57 00	1C 3F 20 4C 20 30 49 2A 00	: J1psvg: : 0%),08 :ROTATE : 000++FUE : 0510 :VERT 0 :2 DOHOR : 000 +
	. 51El . 51Fl . 51Fl . 51Fl . 51Fl . 51Fl . 520	BO (0 90 5 PO (0 PO 1) PO (1)	02 54 04 46 03 80 58 09 46 17 08 46 38 4E	BCS \$51F2 BCC \$5246 LDA \$4604 BEQ \$51FA JMP \$5BB0 LDA \$4609 BEQ \$5216 LDA \$460A CMP \$4EB8	.×	>5348 >5348 >5386 >5386 >5388 >5306 >5308 >5308 >5308 >5308 >5308	00 08 20 23 52 4F 30 30 20 20 56 45 32 20 20 20 10 55	0C 10 26 29 54 41 2A 2A 30 35 52 54 44 4F 30 30 00 56	13 20 54 46 31 20 48 30	16 19 30 38 45 20 55 45 30 20 30 4F 52 20 2A 57 00	1C 3F 20 4C 20 30 49 2A 00	: J1psvg: : ::3,06 : RBTATE : 00++FUE : 0510 : YERT ( : 2 DBHGE : 000 +
	. 51El . 51Fl . 51Fl . 51Fl . 51Fl . 51Fl . 520	BO (0 90 5 PO (0 PO 1) PO (1)	02 54 04 46 03 80 58 09 46 17 08 46 38 4E	BCS \$51F2 BCC \$5246 LDA \$4604 BEQ \$51FA JMP \$5BB0 LDA \$4609 BEQ \$5216 LDA \$460A CMP \$4EB8	.×	>5348 >5348 >5386 >5386 >5388 >5306 >5308 >5308 >5308 >5308 >5308	00 08 20 23 52 4F 30 30 20 20 56 45 32 20 20 20 10 55	0C 10 26 29 54 41 2A 2A 30 35 52 54 44 4F 30 30 00 56	13 20 54 46 31 20 48 30	16 19 30 38 45 20 55 45 30 20 30 4F 52 20 2A 57 00	1C 3F 20 4C 20 30 49 2A 00	: 01 psvg: : 02),08 :RUTATE : 00++FUE : 0510 :YERT 0

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. 554B	20 20 56 JS A0 1A LD 20 30 56 JS AD D2 53 LD C9 2A CN D0 0A EN A9 55 LD 8D D2 53 ST A9 50 LD 8D D3 53 ST 20 60 56 JS 38 SE	P ¢5620	. 55E0	00 DE 50	LDA \$53DE
. 554E	80 18 17	Y #\$18	. 55E3	C9 28	CMP #\$28
. 5550	20 30 56 45	R \$5630	. 55E5	DO OF	BNE \$55F6
. 5553	An no 53 Ln	A \$53D2	. 55E7		LDA \$53EB
. 5556	C9 2A CM	P #\$2A	. 55EA	0A	H2F
. 5558	DO OR EN	E \$5564	. 55EB	B0 06	BCS \$55F3
. 555A	A9 55 LD	A #\$55	. 55ED	EA	NOP
. <b>5</b> 55C	8D D2 53 ST	R \$53D2	. 55EE	EA	NDP
. 555F	A9 50 LD	A #\$50	. 55EF	EA	NOP
. 5561	8D D3 53 ST 20 60 56 JS 38 SE B0 28 BC AD D2 53 LD C9 55 CM A0 1A LD 20 00 56 JS 20 50 56 JS A0 1A LD 20 30 56 JS AD D2 53 LD C9 2A CM D0 0A BM A9 44 LD 8D D2 53 ST A9 4F LD 8D D3 53 ST	A \$53D3	. <b>5</b> 5F0		JMP \$5720
. 5564	20 60 56 JS	R \$5660	. 55F3		JMP \$5735
. 5567	38 ZE	C	. <b>5</b> 5F6		JMP \$572A
- 5568	B0 58 BC	2 \$5592	. 55F9		JMP \$573F
. 556A	AD D2 53 LD	A \$53D2	. 55FC		JMP \$5742
. 556 <b>D</b>	U9 55 UM	P #355	. 55FF	EA	HOP
. 556F	DU DS EN	E \$5546	. 5600	A2 01	LDX #\$01
. 5571	HO 1H LD	Y #31H	. 5602		LDA \$53B6,Y
. 5573	20 00 56 32	K \$2600	. 5605	29 OF	AND #\$OF
. 5576 . 5579	50 30 35 32	K 355550	. 5607	95 5C 88	STA \$5C,X DEY
. 557B	20 20 54 15	D 6220	. 5609 . 560A		LDA \$53B6,Y
. 557E	AD D2 53 LD	R \$5302	. 560D	29 OF	AND #\$0F
. 5581	C9 28 CM	P #\$28	. 560F	0A	ASL
. 5583	N3 90 00	F \$558F	. 5610	0fi	ASL
- 5595	89 44 LD	8 #\$44	. 5611	0A	ASL
. 5587	BD D2 53 ST	A \$53D2	. 5612	0fi	ASL
. 558A	A9 4F LD	A ≎\$4F	. 5613	15 5C	DRA \$5C.X
. 5580	8D D3 53 ST	A \$53D3	. 5615	95 50	STA \$5C.X
. 558F	20 60 56 JS	R \$5660	. 5617	88	DEY
. 5592	A9 20 LD	A #\$20	. 5618	CA	DEX
. 5594	BD D2 53 ST A9 4F LD BD D3 53 ST 20 60 56 JS A9 20 LD BD CD 53 ST 38 SE B0 06 BC EA ND EA ND EA ST AE EB 53 LD AC E9 53 LD AC E9 53 LD AC E9 53 LD AC E9 53 CD BA TX 29 0F AN BD E9 53 ST C9 05 CM BD	A \$53CD	. 5619	10 E7	BPL \$5602
. 5597	38 <b>Z</b> E	C	. 561B	60	RTS
. 5598	BO 06 BC	0A228 2	. 561C	EA	NOP
. 559A	EA ND	Þ	. 561D	£Α	NOP
- 559B	EA NO	P	. 561E	EA	NOP
. 5590	EA NO	Þ	. 561F	Efi	NDP
. 559D	8C E8 53 ST	Y \$53E8	. 5620	F8	SED
. 55A0	AE EB 53 LD	K \$53EB	. 5621	18	CLC
. 55A3	HC E9 53 LD	7 \$53E9	. 5622	A5 5D	LDA \$5D
. 55ft6	88 DE	45550	. 5624	69 01	ADC #\$01
. 55A7	10 50 BP	L (\$5519	. 5626 5626	85 5D	STA \$5D LDA \$5C
. 55A9	20 OF ON	ተ የ ልድልር	. 5628 . 562A	A5 5C 69 00	ADC #\$80
. 55AA	27 UF HIY	D 62256	. 562C	85 5C	STA \$50
FFOF	CO 05 CM	D 4405	. 562E	D8	CLD
- 55E1	E0 49 BF	0.555EC	. 562F	60	RTS
. 55B3	89 TX	A 2001 C	. 5630	A2 01	LDX #\$01
. 55B4	CA AS		. 5632	B5 50	LDA \$50,X
. 55B5	BO 17 BC	\$ \$55CE	. 5634	48	PHA
. 5587	AD DE 53 LD		. 5635	29 OF	AND #SOF
. 55BA	C9 4C CM	P #\$4C	. 5637	09 30	DRA #\$30
. 55EC		Q \$55D5	. 5639	99 B6 53	STA \$53B6,Y
- 55BE	A0 26 LD	Y #\$26	. 5630	88	DEY
. 55Cŭ	20 00 56 JS		. 563D	68	PLA
- 55C3			. 563E	4 <del>11</del>	LSR
. 5506		7 \$\$26	. <b>56</b> 3F	4fi	LSR
. 5508	20 30 56 JS	x \$5630	. 5640	4 <del>0</del>	LSR
. 55CB	4C E0 55 JM		. 5641	4fi	LSR
- 55CE	AD DE 53 LD		. 5642	09 30	DRA #\$30
. 55D1		° \$\$52 - \$550=	5644		STA \$53B6,Y
. 55D3 . 55D5		E \$55BE	5647 5648	68 88	DEY
. 5507	20 00 56 JS	/ #\$26 2 \$5600	1 5648 . 5649	CA 10 E7	DEX BPL \$5632
. 55DA	20 80 56 JS		. 564B	60 Er	RTS
. 55DD	38 SE		. 564C	EA	NOP
. 55DE		\$5506	. 564D	EA	NDP

· UCIL LIE III								
. 564F ER NDP	-	EZEC	0.0				ن در د ب	
- 504F ER 11UF	-	2125	HU				<b>\$</b> 03	
- 5650 F8 SED	-	5760	20	30	56	JSR	\$5630	
. 5651 38 SEC	-	5763	A9	20		LDA	<b>\$\$20</b>	
. 5652 A5 5D LDA \$5D		5765	8 D	B6	53	BT2	\$53B6	
. 5654 E9 01 SBC #\$01	_	5768	ខ្លា				\$53B7	
- 5656 85 5D STA \$5D	•	576B	60		-	RTS		
E(50 05 50 100 050	-	5700	60					
. 5658 A5 5C LDA \$5C	•	3760	H9	28			#\$2A	
. 565A E9 00 SBC #\$00	-	576E	80				\$53BA	
. 565C 85 5C STA \$5C		5771	8 D	$\mathbf{B}\mathbf{B}$	53	STA	\$53BB	
. 565E D8 CLD		5774	60			RTS		
. 565F 60 RTS		5775	en		53		\$53BA	
- 564F EA NDP - 5650 F8 SED - 5651 38 SEC - 5652 A5 5D LDA \$5D - 5654 E9 01 SBC #\$01 - 5656 85 5D STA \$5D - 5658 A5 5C LDA \$5C - 565A E9 00 SBC #\$00 - 565C B5 5C STA \$5C - 565E D8 CLD - 565F 60 RTS - 5660 18 CLC	•	5770	CO	52				
FCC1 OF FR LDC OFF	•	3770					#\$52	
. 5661 A5 5D LDA \$5D	•	5//H	ΗU	<b>D</b> 6			<b>\$5</b> 7 <b>5</b> 2	
. 5663 65 5C ADC \$5C	-	577C	A O	03		LDY	#\$03	
. 5665 DO 08 BNE \$566F		577E	20	00	56	JSR	\$5600	
- 5667 A9 2A LDA #\$2A	_	5781	20				\$5620	
. 5669 8D D2 53 STA \$53D2	٠	5704	0.0	03			<b>\$\$</b> 03	
ECCC OF TO ECCEPT	•	5104						
- 566C 8D D3 53 STA \$53D3	•	2/86	50				\$5630	
. 566F 60 RTS		5789	20	63	57	JSR	\$5763	
. 5670 18 CLC		578C	AD	BA	53	LDA	\$53BA	
. 5671 AS 5D LDA \$5D	_	'578F	C9	28			#\$2A	
. 5673 65 5C ADC \$5C	-	5791	กก	0A			\$579D	
. 5675 DO 08 PNE \$567F	•	5700	70					
	•	3173	H7	4C			<b>\$\$4</b> C	
- 5677 A9 2A LDA #\$2A	•	5/95	នព				\$53BA	
. 5679 BD DE 53 STA \$53DE	-	<b>5</b> 798	A9	45		LDA	<b>#\$</b> 45	
. 567C 8D DF 53 STA \$53DF		579A	8 D	BB	53	STA	\$53BB	
. 567F 60 RTS	_	579D	60			RTS		
- 5680 20 50 56 JSR \$5650	•	5700	EA			NOP		
• 5000 E0 50 50 50 55 \$5550	-	3775	E17					
. 5683 20 70 56 JSR \$5670	•	5/9F	EΑ			NDP		
. 5686 60 RTS	•	57A0	AB	BA	53	LDA	\$53BA	
. 5687 EF ???		57A3	C9	4C		CMP	<b>\$\$4</b> C	
		57A5	FO	AB		BEQ	\$5752	
>5700 D2 54 D8 54 DE 54 E4 54 :RTXT^TdT	-							
		5787	<b>A</b> 0	ยร		I DV	#± 42 U.3	
>5700 EC 54 EC 54 EC 54 EC 54 * ITATUTUT	•	57A7		03		LDY		
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	-	57A9	20	00	56	JSR	\$5600	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	-	57A9	20	50 00	<b>56</b> 56	JSR JSR	\$56 <b>00</b> \$5620	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	00	<b>56</b> 56	JSR JSR	\$5600	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	03 50 00	<b>56</b> 56	JSR JSR LDY	\$5600 \$5620 #\$03	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	30 03 00	56 56 56	JSR JSR LDY JSR	\$5600 \$5620 \$\$03 \$5630	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	93 93 93 50	56 56 56 57	JSR JSR LDY JSR JSR	\$5600 \$5620 \$303 \$5630 \$5763	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	00 03 30 63 8A	56 56 56 57 53	JSR JSR YDJ JSR JSR LDA	\$5600 \$5620 #\$03 \$5630 \$5763 \$53BA	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	00 03 30 63 88 20	56 56 56 57 53	JSR JSR LDY JSR JSR LDA CMP	\$5600 \$5620 #\$03 \$5630 \$5763 \$53BA #\$2A	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	00 20 03 30 63 BA 2A 0A	56 56 56 57 53	JSR JSR LDY JSR JSR LDA CMP BME	\$5600 \$5620 #\$03 \$5630 \$5763 \$53BH #\$2H \$57C8	
>5708 EA 54 FO 54 F6 54 FC 54 : jTpTvT:T	•	57A9	20	00 03 30 63 88 20	56 56 56 57 53	JSR JSR LDY JSR JSR LDA CMP BME	\$5600 \$5620 #\$03 \$5630 \$5763 \$53BA #\$2A	
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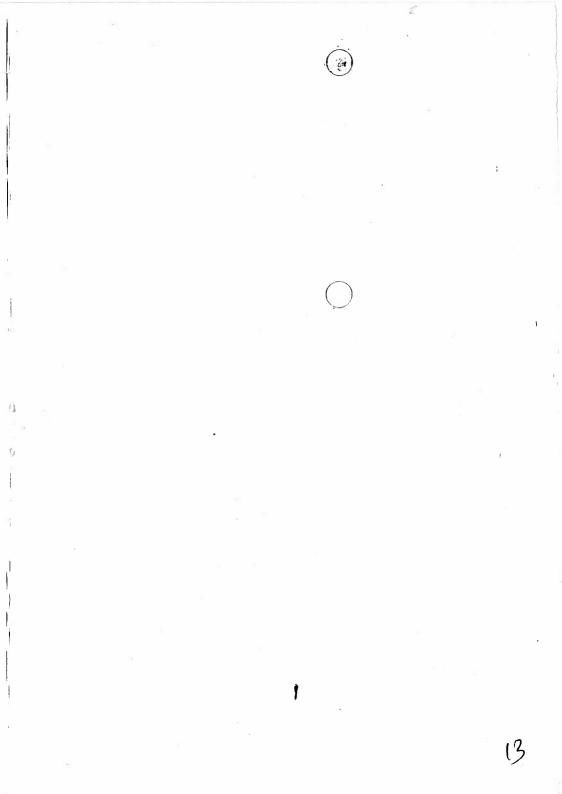
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	70040	υv	vv	υu		ียบ	1.0	ยบ	11111	7	>nese	1 1	EE	10		4.0		4.0	*			
	\nc\)	0.1	. Fø	UU	20	vv	UU	07	F4	:.xt	· >neao	10	FF	1.0	EE	1 0	CC	10	CC		5	
	/10000	vv	20	υu	υu	ut-	t:B	1311	411	: h @	10569	. 1 n	==	10	E .	4.0		4.0				
	\nce\		00	ΙĐ	EU	ีบบ	ยบ	00	03	• • • • • • • •	>NF70	1.0	EE	t n		1.0		10				
	>DC70	02	00	0.0	01	15	0.3	n4	00	(hωP	>DE00	10	EF	10	EF	10	EF	10	EF	: . 0 . 4	0.0.	
	<b>&gt;DC.</b> 8	UU	UU	E	ĦΟ	68	00	00	00	:0	>DE88	1.0	FF	1.0	FF	1.0	EE	1.0	CC			
	/DC90	07	40	ΙU	υu	UU	UU	07	00		>DF90	1 1	EE	1 0	CC	1.0	CC	10	55			
	70088	ΙU	υu	υu	υu	UΕ	80	10	0.0	<b></b>	>DF98	1.0	EE	1.0	EE	1 0	EE	10	F F			
	<b>シかにみり</b>	00	UU	V6	U1	ΗU	00	00	00	<b>:</b>	>DEAN	1.0	FE	1.0		1.0		10				
	>DCH0	40	00	00	00	00	88	80	74 00	:@t	>DEB0	10	EF	10	EF	10	EF	10	EF	:.0.0	0.0.6	
2	<b>フ</b> カには8	υu	00	υU	09	00	00	00	0.0		) TIF BR	1.0	EE	1.0	EE	10	CC	10	CC			
	ARCRO	UU	12	UU	UU	00	00	00	12		>DECO	t n	FF	1 /	FF	10	FF	10				
	70000	υv	υu	UU	UU	υU	12	υv	UU		>DEC8	1 በ	FF	1 0	FF	10	EE	t n	EE			
	SUCCE	00	06	0.0	0.0	00	00	00	00		>DED0	10	EF	10	EF	10	EF	10	EF	:.0.0	- O. C	
B.	>DCD0	00	00	00	00	00	00	00	00	:	>DEEU	10	EF	10	EF	10	EF	10	EF	: - 0 - 0	. O. C	
	NULLIS	บบ	υu	UU	UU	00	00	00	00		>DFF8	1 0	FF	10	FF	10	EE	10	EE			
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	DCF	25	UE	0.0	0.0	04	00	05	DO -	·	>DF 00	6D	00	10	EF	10	EF	10	EF	: m o	.0.0	
	\nno0	UU	υu	υŪ	υu	υυ	UU	UU	ยบ	• • • • • • • •	DEIN	1 11	FF	10	==	10		10				
	งมมูยู่ช	UŲ	υu	38	00	UU	UU	00	00	<b>: 8</b>	>DF18	1 0	FF	10 1		10	c -	10				
	\nnto	F4	υv	υU	UU	UU	03	F2	88	: t h .	ノガとうり	10	EE	10 1		10 1	1					
	Annia	υU	UU	υv	UC	HS.	UU	UU	00	"	)DE28	10	FF	10 1	== .	10 1	== 1	10 3	- t-			
	>DD28	01	00	00	00	00	38	01	00 :		)DE38	10	EF	10 E	EF :	10 (	EF 1	101	EF :	. 0. 0	- 0 - 0	
	/nn20	UU	UU	UU	34	UI	UU	UU	00	4	>NF4A	10	FF	10 6		10 1	1	0.0			_	
	7DU38	uu	731	111	111)	1110	nn	വെ			VDE 40	• •		40 5								
	/ DD + 0	O I	00	UU	vv	UU	EU	UI I	uu :	`	>11F50	10	EE	10 6		1 N E		0.0				
	>0500<	00	CG	00	00	00	กก	0 ( ) 0 ( )	UU 2	P	>DF58	10	EF :	10 E	F 1	10 E	F 1	0 E	F:	. 0. 0.	. 0. 0	
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	/ nno o	UU	UU	U3	HU	บช	บบ	80 D	00 :	0	SDEZG	10	EE .	10 5	T. (	0 0	·- •					
	/DD00	U.S	40	UO	υu	UU	UU	[/ <b>⊢</b> }	311 3		YDE 78	10		in E	T 1	ו ח	·	0 5				
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Dear ROY (ED)

If we included a text game here and also another short game that I came across which i thought someone may like to try. •Do you know where I could get a book on 6502 Machine Language programming. I

would be grateful if you could let me know. All the very best in the new year with the C16/+4 CLUB ROY.

YOURS SINCERELY JIM NICHOL

## SCREEN HARDCOPY FOR C16 & PLUS/4. ADDAPTED FROM A SERMAN MAGAZINE BY V.BERZINS

THIS HARDCOPY SUBROUTINE WILL PRINT THE CONTENTS OF THE SCREEN ON TO THE PAPER. THE CONTENTS WILL BE INSIDE A FRAME. CALL THE ROUTINE FROM MITHIN A PROGRAME WITH '60SUB 1000'.

! 1000 REM HARDCOPY ROUTINE | 1020 OPEN4, 4, 0 | 1030 FOR X=1 TO 42:X=X\$-\*-":NEXT X | 1040 PRINT84, X\$ | 1050 FOR X=0 TO 24:Y\$="!" | 1060 FOR Y=1 TO 40:YX=PEEK(3071+X\$40+Y): 1 TYXC\$ZTHEN YX=YX=64 | 1070 Y\$=Y\$+CHR\$(YX):NEXT Y | 1080 Y\$=Y\$+":"!PRINT84, Y\$:NEXT X | 1090 PRINT84, X\$:PRINT84:PRINT8

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トレート ネタネ イレー・ト いいかん インハー・ロー しょウノナサ 水水学
        ******* CALLED QUEST *****
 10 DATA42,23,12,,,,,,-2,101,-2,,,,33,2,1,10,106,4,3,30,2,11,2,1
 20 DATAS, 8, 15, 10, 8, 16, 16, 3, 2, 10, 2, 2, -2, 101, -2, , , , 18, 18, 15, 10, 18, 9
 30 DATA-2,33,5,1,,-2,-2,101,-2,,,,1,13,4,2,1,2,36,2,1,2,1,2
40 DATHS, 37, 2, 1, 11, 14, 13, 1, 19, 2, 31, 31, -2, 101, -2, , , , 5, 33, 2, 10, 1, 106
50 DATA-2,101,-2,,,,-2,101,8,,,,224,2,2,14,1,42,286,1,2,2,25,2
60 DATA1,226,2,2,38,25,-2,33,13,50,29,30,2,1,2,31,2,2,-2,101,19,,,
70 DATA21,20,2,2,1,19,-2,65,-2,50,11,14,2,40,2,2,21,20,-2,60,221,50,14,19
80 DATA2,42,2,13,1,1,34,34,2,1,4,2,14,14,23,2,1,2,+2,101,516,,,
90 DATA2,1,2,1,116,3,1,35,2,1,30,30,2,1,2,37,34,36,35,2,1,37,34,12
 100 DATA2,1,35,2,13,2,2,21,2,116,1,2,2,40,2,32,21,26,40,40,2,2,40,41
 110 DHITH40,40,40,2,40,89,28,28,28,28,28,28
 IZO PRINTED
                           QUEST": PRINT
 130 PRINT"YOU WERE NAUKING THROUGH THE"
140 PRINT"WOODS, AND YOU CAME ACROSS THE ENTRANCE"
150 PRINT"OF A CAVE, COVERED WITH BRUSH."
160 PRINT: PRINT" PEOPLE SAY THAT MANY YEARS AGO A"
170 PRIMI"PIRATE HID HIS TREASURE IN THESE"
160 PRINT"WOODS, BUT NO ONE HAS EVER FOUND IT."
190 PRINT"IT MAY STILL BE THERE, FOR ALL I KNOW."
200 REPUMS, T1, T2: DIMWZ(42), MZ(5, 41)
210 FORI=@TO41:FORJ=@TO5:READMX(J,I):NEXT:NEXT
220 G05UB740
230 N=5:M0=0:M6=0:T=F1:P=0:P1=0:FORJ=1TOM9:WX(J)=0:NEXT:PRINT:GOSUB760
240 Ma=M0+1:GOSUB580:GOSUB280:GOSUB380:IFT>00RN<>SGOTO240
250 GOSUB350:PRINT:PRINT"CONGRATULATIONS! YOU GOT THE TREASURE"
260 POST A TIN"MO"MOVES AND YOU COT"S+10"POINTS!"
270 PECHET"WANT TO HUNT AGAIN?":A$="YN":A2=2:GOSUB500:ONA1GOTO230,1670,270
280 IFT () NORT (@ORM6+5) MOTHENRETURN
290 PRINT"DO YOU WANT TO TAKE IT WITH YOU?"
300 HC="YN":A2=2:G05UB500:ONA1G0T0320,330
310 FRINT"WELLT.... GOTOS@@
320 T=-1:PRINT:PRINT"OK, LETS GET OUT OF HERE!":RETURN
330 PRINT:PRINT"WEILL LEAVE IT HERE AND YOU CAN EXPLORE"
340 PRINT"SOME MORE.":M6=M0 RETURN
350 5=0:IFT=-1THEMS=5
360 IFF=1THENS=5+10
370 FORJ=2TOM9:5=5+WM(J):NEXT:RETURN
380 IFN=T20RF=10RT1=T20RT()-1THENRETURN
390 11 N=16THENP=160
400 IFP100THENP1=P1+1
410 IFN=STHENP1=P1+1
420 IFP1(15THENRETURN
430 PRINT: PRINT" SUDDENLY THE PIRATE LEAPS OUT OF THE"
440 PRINT'GLOOM AND GRABS THE TREASURE FROM YOU!"
450 PACET" MAH! ", HE SHOUTS, "YOU FOUND MY"
460 PRINT"TREASURE, DID YOU?! WELL, I'LL HIDE"
470 FRINT"IT BETTER THIS TIME! "
480 PRINT"AND HE DISAPPEARS INTO THE DARKNESS"
490 PRINT"WITH THE TREASURE. ": P=1:T=T2:RETURN
500 CHIII: IFI#=""GOTO500
510 FORA1=1TOA2:IFI$=MID$(A$,A1,1)THENRETURN
520 ME LETURN
500 MB=N:N8=0:005UB590:IFN-ITHENN0=N:A0=A1
540 PRINT: I=MM(fi1-1, N-1)
550 IFI=-2THENI=N9
560 IFI)499THENI=I-500:FORJ=0T09999:NEXT
570 UNI, 10000T0590,610
580 N=1:00T0620
590 N=I-100 IFT=-1THENN=N+1
600 0010620
610 N=1-200: IFT=-1THENN=N+P
```

520 IFN-100T0540

410 FPRJ=0T05 MY(J, N-1) \*2: NEXT'MY(6-A0, N-1)=NO

```
650 M2(N)=1:No=N:11N2(U)N-19+21NENALTURA
 660 I=MZ(5,N-1):J=-1:IFMZ(3,N-1)>100*RND(1)THENI=MZ(4,N-1)
 670 J=-1: IFMZ(1,N-1)>100*RND(1)THENI=MZ(2,N-1)
 €SØ G0T055Ø
 690 PRINT: PRINT"
                                    WHICH WAY? ";: As="NEUDWSP": A2=7: GOSUBS@0
 700 PRINTIS: IFA1<8G0T0720
 710 PRINT"WHICH WAY DO YOU WANT TO GO?":GOSUE740:GOSUE760:GOTO690
 720 IFA: CATHENRETURN
 730 GOSUB350: PRINT"YOU HAVE "S"POINTS! ": GOTO690
 740 PRINT:PRINT"TYPE N,S,E,W,U OR D FOR NORTH, SOUTH,"
 750 PRINT"EAST, WEST, UP OR DOWN AND P FOR SCORE.":PRINT:RETURN
 760 J=N'UNUGOTOSS0,S60,870,S90,900,920,940,960,500,580,1000,S50
 770 0NJ-120001020,1060,1090,1100,1140,1160,1170,1200,1230,800,1270,1260
 780 ONJ-24GOTO1300,1320,1360,800,1350,1420,1450,1470,1470,1500,1510,1520
 790 ONJ-36GOT01530,1540,1590,1610,1620,1640
. 800 IFT=NTHEMPRINT:PRINT"THE TREASURE IS HERE!"
 810 IF ROTZORT1=T20RT1<>NTHENRETURN
 820 PRINT: PRINT"A NOTE ON THE WALL SAYS"
 830 FRINT"
             'PIRATES NEVER LEAVE THEIR TREASURE"
 840 FRINT"
              TWICE IN THE SAME PLACE!": RETURN
 850 PRINT"YOU'RE AT A DEAD END!":GOT0800
 860 PRINT"YOU CAN'T GO IN THAT DIRECTION. ":GOTOB00
 870 PRINT"A FUNNEL GOES NORTH-SOUTH."
 880 PRINT"THERE IS AN OPENING TO THE WEST. ": GOTOSOO
 890 PRINT"YOU'RE ON THE BRINK OF A PIT.":GOTOSOO
 900 PRINT"YOU'RE OUTSIDE THE CAVE."
 910 PRINT"GO SOUTH TO ENTER. ": GOTO800
 920 PRINT"YOU'RE AT THE HOME OF THE GNOME-KING."
 930 PRINT"FORTUNATELY, HE'S GONE FOR THE DAY. ": GOTOBOO
 940 PRINT"THE GNOME KING IS HERE!"
 950 PARIST YOU'D BETTER GET OUT!":PRINT:GOTO800
 960 PRINT" YOU'RE LOST IN THE WOODS. ":GOTO800
 970 6010000
 980 PRINT"YOU'RE NOT GOING TO GET FAR. DIGGING"
 990 PRINITHROUGH ROCK. ":PRINT:GOTO800
 1000 PEINT"YOU'RE AT THE BOTTOM OF A PIT. A LITTLE"
 1010 PRINT"STREAM FLOWS OVER THE ROCKS HERE. ": COTO800
 1020 PRIN: "OURRE AT A WIDE SPOT. THERE IS A"
 1030 PRINT"SOOTY PATCH WHERE SOMEBODY HAS RESTED"
 10000
           'A TORCH AGAINST THE WALL. THERE ARE"
 1050 FAIRTHUINGGED ROCKS ABOVE YOU. ":GOTOSOO
 1060 PRINT"YOU'RE IN A CANYON. HIGH ON THE WALL"
 1070 PRINT"ABOVE YOU IS SCRATCHED THE MESSAGE"
 1050 PRINT"
                 "BILBO WAS HERE!" GOTO800
 1090 PRINT"YOU'RE NOT A BIRD. YOU CAN'T FLY! " PRINT: GOTOSOO
 1100 PRINT"YOU'RE IN A LOW CHAMBER. A TIGHT TUNNEL"
 1110 PRINTEGOES EAST, AND YOU CAN WALK TO THE"
 1120 PRINT"SOUTH OR WEST. THERE IS LIGHT"
 1130 PRINT"TO THE NORTH. ": GOTOSOO
 1140 PRINT"IT'S A TIGHT SQUEEZE. YOU CAN'T"
 115W PRINT"GET PAST WITH THE TREASURE.":PRINT:GOTO600
 1160 PRINT" DON'T THINK YOU CAN FIND THE CAVE.": GOTOS@@
 1170 PRINT"YOU'RE AT THE TOP OF A CLIMB."
 1180 FRINT"BELOW YOU A MESSAGE SAYS"
 1190 PRINT"
                /BILBO WAS HERE: ": GOTO800
 1200 PLINT"YOU RE AT THE NORTH SIDE OF A CHASM."
 1210 PRINT"TOO WIDE TO JUMP. RINGING ECHOES FROM"
 12 3
        INT"BELOW ARE THE ONLY INDICATION OF DEPTH.":GOTOSOO
 1280 PRINT"YOU'RE IN MANADU. BELOW YOU"
 1240 PRINT"ALPH, THE SACRED RIVER RUNS"
 1250 PRINT"THROUGH CAVERNS MEASURELESS TO MAN."
 1260 PRINT"DOWN TO A SUNLESS SEA. ": GOTO800
 1270 PRINT"YOU'RE ON THE LEDGE ABOVE THE GUILLOTINE ROOM.":GOTOSOO
 1230 PRINT"I HEAR THE GIANT THERE!!!"
 1290 PRINT"YOU'D BETTER GO BACK!":PRINT:GOTOSOO
 1800 PRINT"YOU'RE IN THE GIANT'S CAVERN. BETTER"
 1810 PRINT NOT BE HERE WHEN THE GIANT COMES!" GOTOBOO
 1320 PAINT YOU'RE IN THE QUEST RESEARCH AND
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10 COLORO, 1, 1: COLOR4, 1, 1: PRINT" Time of the
      20 PRINTIAB(8)"蓝素素素素素素素素素素素素素素素素素素素素素素
      30 PRINTHS(8)"##
      34 PRINTTAB(8)"*##
                                                                                                    FR0G3 C 16
     SØ PRINTTAB(8)"*##
      90 PRINTINB(8)"***************
      100 FURI-ITOSES NEXT
      140 DIMA(20)
      150 FORJ=1TOS
      160 PRINT" (Indicated)"; TAB(X)" [ MARCHER | MINISTROGS |
      170 X=:.+3
      1.0 PRINT" MENDEMOND (......JUMPING GAME!)
      190 FORI=1TO100:NEXTI
     LIXEN 003
     210 FORI=1TOS00 NEXTI
     220 N=12
     225 PRINT"
                                                              Moletelet
     230 FF [N]
                                                               # DO YOU WANT INSTRUCTIONS ? "
     240 St tm2
             J If ( $=""THEN240
     270 IFAs="Y"THEMGOSUB730:PRINT"]"
     280 Thrib="N"THENSSO
     290 PRINT"]": REM SET UP BOARD
     300 FORI=1T09(A(I)=1:IFI)4THENA(I)=2
     310 ME. 11
      :. 0 A(S)=0:GOSUB1570
     330 T≃0
     340 REM DISPLAY THE LANDSCAPE
     350 GOSUB1350
     360 PRINT"Statemen"; :005UB1570
    STO PRINT"WHICH FROG ?
                                                                                                       MOVING
                                                                                                                                 # ":T:GOSUB1630
9 350 OF THE THE VAL (AS)
    890 IFACIORAS9THENS80
    400 IFA(A)=0THEN1620
    410 D=685(6~8)
 420 IFEC=2THEN450
    480 GOSUB1420:GOTOS60
    440 IFR(A)=000T0460
    450 H(B)=A(A):A(A)=0:G0T0470
    400 PRINT"HUH?"; : COTOS60
    470 Z=2#D
    460 光=4第月-2
   490 Y=19
   500 IFACETHENS40
   510 IFA(B)≈1THENGOSUB127@
   520 IFA(E)=2THENGOSUB1310
   500 GOTOS60
   540 IFA(B)=1THENGOSUB1190
  $50 ( A(B)=2THENCOSUB1230
  560 THT+1
  570 IF(A(1)+A(2)+A(3)+A(4))=(A(5)+8)GOTO630
  500 COTOSA0
  500 005081120
  600 PRINT"H"
  610 FORI=1T080:FRINT"

•"::NEXTI:FORI=1T01000:NEXT

  620 PRI 11 '91
                                                    - AMAN LEND TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL 
  630 IFF(231Hcu) 03UB1650:G05UB1680:G05UB620
  640 IFT)28THEN650
 650 IFT<32THENG05UB1650:G05UB1780:G05UB620
 660 IFT>31THEN670
 670 IFT(35THENCOSUB1650:GOSUB1750
```

1340 PRINT"I'M SORRY, BUT VISITORS ARE NOT" 1350 PRINT"ALLOWED. YOU'LL HAVE TO LEAVE. ": PRINT: GOTO800 1360 PRINT"YOU'RE IN THE CRYSTAL PALACE. THE" 1370 PRINT"WALLS RESONATE WITH" 1380 PRINT"AMESOME MUSIC. ": PRINT: GOTO800 1390 PRINT"YOU'RE AT THE TOP OF A GIANT STALACTITE."; 1400 PRINT"YOU COULD SLIDE DOWN, BUT YOU COULDN'T" 1410 PRINT"CLIMB BACK UP. ": GOTO800 1420 PRINT"YOU'RE IN A LITTLE GROTTO. THERE IS A" 1430 PRINT BOOK HERE CALLED JANES FIGHTING SHIPS," 1440 PRINT"DATED 1763.":GOTOSQO 1450 PRINT"YOU'RE IN THE GUILLOTINE ROOM. A SHARP" .1460 PRINT"LEDGE ABOVE YOU. ":GOTO800 1470 PRINT"YOU'RE IN A CHUTE, SCRAMBLING DOWN THE" 1480 PRINT"ROCKS! NO WAY TO STOP! HANG ON!": PRINT: GOTOS00 1490 PRINT"THE TIGHT TUNNEL TURNS A CORNER. ": GOTOROO 1500 PRINT" YOU'RE IN A LITTLE TWISTY MAZE. ":GOTO:300 1510 PRINT"YOU'RE IN A LITTLE TWISTING MAZE. ": GOTOSOO 1520 PRINT"YOU'RE IN A TWISTING LITTLE MAZE. ": GOTO800 1530 PRING THE RE IN A TWISTY LITTLE MAZE. ": GOTO800 1540 PRING 'YOURE IN A PREHISTORIC DWELLING. ON" 1550 PRINT"THE WALL ARE DRAWINGS OF BISON DONE IN" 1560 PRIN. RED CLAY. THE FLOOR IS STREWN WITH" 1570 PRINT BONES, THE REMAINS OF ANCIENT RITUALS." 1580 PRINT"A SMALL TUNNEL GOES THROUGH THE FLOOR. ": GOTO800 1590 FRINI " DI RE IN A BLACK HOLE. THE" 1600 FRINT'FORCE OF GRAVITY IS OVERWHELMING.": GOTOSOO 1610 PRINCESS RE IN THE LABVRINTHE. ": GOTOGOO 1620 PRINT"YOU'RE IN THE LABYRINTHE." 1630 PRINT"IT'S VERY DARK IN HERE. ": GOTO800 1640 PRINT"YOU'RE IN THE ASHRAM. INCENSE IS HEAVY"

1650 FREED IN THE AIR, AND ALL DIRECTIONS"

1660 PRINT"SEEM THE SAME. ": GOTO800

1670 END

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700 00506710
   710 FORI±1T09
   720 IFA(I)=2THENPRINT"00回题問題(※※)包書問題P L";:PRINT"[T]";
   730 FRINT"]
                 WE BEGIN WITH 8 FROGS,
                                              ":PRINT" MEN"
   740 005UB1170 PRINT PRINT
   750 PRINT" FOUR OF THEM LOOK LIKE THIS:"
   760 PRINT PRINT"
                    - MaddadadadaHIT ANV REY"
   770 GETA1: IFA1=""THEN770
   780 PRINT" THE REST LOOK LIKE THIS: ""
   790 GOBUB1180:PRINT
   800 PRINT: PRINT
   810 PRINT" THE IDEA IS TO MOVE THE FROGS FROM 1-4"
   820 PRINT"MTO 6-9 IN THE LEAST POSSIBLE MOVES."
   STO PRINT PRINT GOSUBILZO PRINT""
   1100 BUILDIEN
   1110 FORK=1TOZ: X=X-1: Y=Y-1: GOSUB1170
   1120 PRINT" MM:PRESS ANY KEY TO CONTINUE!"
   1130 GETH::IFH:=""THEN1130
   1140 RETURN
   1150 PRINT"H";:FORI=1TOX:PRINT"H";:NEXT
   1160 FORJ=1TOY: PRINT"N"; : NEXT: RETURN
   117の 中・「PE1150 PRINT"書編奏版書鑑問に対 報う演唱器問門 特門::PETURM
   1150 FORE-1:02: HEX+1:Y=Y-1:005U81170
   1200 FINITENT DIST DIST "FINERT
   1210 FORK=1T02:M=N+1:V=V+1:G0SUB1170
   1200 PRINT" MESST: RETURN
   1230 FORT ITOZ: N=X+1: V=V-1: G030B1180
   1240 Fire DE THERES! EN "; INEXT
   1250 FORK=1T0Z::/aX+1:/aV+1:005UB1180
   1260 PRINT" MINETI "; NEXT: RETURN
   1270 FUNK=1102: N=X-1: Y=Y-1:003UB1170
                    ";:NEXT
   1280 PRINT" ENSEM
   1890 : ORN=170Z:N=N-1:7=V+1:G03UB1170
■ 1500 PH HT"METTI MM ";:NEXT:RETURN
   13:0 FU H:1T0Z:N=X-1:Y=Y-1:G0SUB1130
   1020 FRINT" 直翻翻 ",:NEXT
  15 P | TORK=1TOZ | N=N-1 | Y=V+1 | GDBUB1180
 1350 +0 .T"5"; K=1:V=22:005U81150
   1360 FRINT"E. - , - , - , - , - , - , - , - , -
   1559 V=15:FORX=2T0145TEP4:G05UB1170:NEXT
   1400 FCW. - 2010065TEP4: GOSUB1180: NEXT
   1410 RETURN
   1420 IFA(A)=ETHEN1500
   1430 图=4集6-217=13
  1440 FORK=1TOD:Y=Y-1 G05UB11T0
  1452 RINT" MARKES
  1450 MENTE
  1470 FORK=1TOD V=V+1:005U81170
  1480 PRINT" [30[T] ] 8 ";
  1450 DEXTRURETURN
  1500 X=4*6-2:7=19
  1510 FORM=170D:Y=Y-1:605UB1180
  15gm 0 0 IMY" 明確相 回 " " " " " ]
  1530 NEXTH
  1540 FORK=1TOD: V=V+1:005UB1180
  1550 PRINT" BILLY TO BE ";
  1560 MENTH: RETURN
  1570 FORE≃1TO9
  1530 IFA(B)=0THENRETURN
  15300 NEST
  1500 PRINT" HELD FROE SPACE!" FORM=1T0500 NEXTM
  1610 PRIMIT
  1620 GOSUB1600 GOTOSGO
```

1700 PRINT PART PRINT: PRINT:

1800 END



teden Plus/4-Benutzer stellt sich die Frage.wo man Computersystem Bekommen kann. Die meisten Zeitungen berichten gar nicht mehr über den um dieses <u>intormationsdelizit</u> akzukauen gikl es seil dem 1.Movember 1988 ein neues Intormationsorgan für alle Plust-Intermationen user und zu diesem plust. andere nur sehr sellen.

PLUVI. des Plus/4-Megazin auf Diskette PLUVI erscheint alle 6 Wochen.

Net Jeder (zweisentigen!) Distette gibt es <u>Informationen Bernather libe</u> <u>Tricks Tests</u> Kommerzie!) vertriebener Hard-und Software und neturlich auch einige <u>quie Programe</u> Disse befinden sich sofort auf Diskette, genz <u>ohne</u> des bei Zottden. Programmen handelt es sich um ausgesuchte Public Domain Software aus Ungarn, USA und Deutschland, Eigen-entwich ungen und Konvertierungen vom C64, Pür Jeden ist Alle Programme sind naturiich ausführlich dokumentiert. etwas dabei: Spiele, Anwenderprogramme, Utilities, schriften ubliche Abtippen:

Und das alles gibt es sehr <u>preiswert;</u> PLUVI kostet nur 10,-

Ausgaben gibt es schon für 45,-DM und 12 Ausgaben 3 Ausgaben kosten nur MO für 84,-DM. pro Ausgabe also für Z -- DM !!! Im Abo gibt es PLUVI noch billiger: 24.-DM. 6 Ausgaben gibt es schon fi

Aus Kosten- und Zeitgrunden ist nur Vorkasse möglich: bar, Verrechnungsscheck, Uberweisung

Volker Huppert Ferlingsweg 15 4150 Krefeld 1 Kto.Nr.: 1587 58-435, BLZ 360 100 43, Postgiroant Essen

## pelling hecker

in inventous program to help you provide vourself with a personalised dictionary to avoid those embarrassing

mistakes.

By W.I. Sellers

(3) Load Dictionary (4) Save Dictionary (1) Spelling check 5) Delete Word (2) Options roof reading a word-processed dixiument is probably not most people's idea of an enjoyable way of spending an hour or so. Thus, any device that can make this lob even a

SPELLING CHECK prompts for a filename and proceeds to perform a spelling check on that file. OPTIONS parameters. Thus, the option to add the misspelt words is required; and allows the user to set up spelling check words to the dictionary can be sciented; whether or not a printout of whether the file is Plus/4 built in word processor format or standard ASCII. The LOAD and SAVE DICTIONARY This is obviously not infallible since mistake will not be spotted. Also, it is A spelling checker helps by comparing every word in the document with a list of common words, and the mistyping of a word can produce another word that will be recognized not possible for the machine to know word, therefore uncommon aurds will always be indicated as misindicating any that it does not find. by the speiling checker and so the

CYCY

options are for (believe it or not) loading and saving dictionary files. DELETE WORD allows the user to delete an unwanted word from the dictionary - a misspelling that has got in by mistake perhaps. Directory prints out the disk directory. Normally, this is not the sort of program that can be typed in from a INTING IN A MURUZINE SINCE the on-line dictionary will contain several thousand words. However, this program is sell teaching and can quickly obtain words for its list from documents it is used to check. This is achieved by allowing the user to ask the computer to remember correctly spelled words that it does not yet know, in this way, the computer gets its word list without

On first running the spelling PROGRAM: CHECKER CREATOR

200

OPTIONS menu. Typing the relevant checker, the dictionary is empty and so t is necessary to type '2' to get to the tetter will toggle the parameter; thus pressing 'C' will switch the program to add word mode. Then type 'D' to exit back to the main menu and then press I' to initiate the spelling checker. This prompts for the name of the file to be

6) Directory

ittle easier is to be welcomed,

asked whether or not it is to be added engthy files, getting the computer to add any not too esotene words to its When a word is not found, you are to the dictionary. Going through a few added each time a file is spelling dictionary will rapidly generate a sizeable list of words that can now be saved as a dictionary file. This can be checked until the fimit set by the memory size of the Plus/4 - about 58K bytes or around 7000 words. If these words have been fairly carefully selected, then most words that the checker fails to recognise will indeed be errors.

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the user needing to type in any extra

さいないとはなるないないということ CHECK' to be created. To run the program, type LOAD"SPELL-CHECK", 8,1 and then RUN it. The The program shown is for use with a disk drive and running it causes a machine code program called 'SPELL. following menu will appear:

7.75.696 208 DATA21,15.201,51,208,6,32 32,555 7 7 76,78,73,78,71. 250 DATA21, 16, 158, 147, 13, 13, 230 DATA288, 5, 32, 248, 18, 78, 21 228 DATA32,118,18,78,21,16,26 218 DATA19,76,21,16,201,52,20 530 DATA32, 188, 200, 32,84,17,9 DATA55,67,84,79,82,85,13, DATA12, 32, 32, 83, 69, 78, 69, DATA32, 10,51,11,32,68,73, DATAGE, 3E, 3E, 3E, 3E, 3E, 3E, 40, DATAN1, 32, 68, 63, 78, 65, 64, DATA68,73,87,84,73,79,78; DATAGY, 32, 78, 85, 78, 67, 84 DATABE, 89, 13, 13, 32, 32, 32, DATA32, 32, 32, 32, 32, 32, 32, 32, MIASE, 11, 32, 83, 65, 86, 69 MIN32, 60, 73, 67, 64, 73, 75 ATAGS 82.85, 13, 13, 32, 32 ATA67, 72, 69, 87, 75, 13, 13, IA48, 51, 41, 32,78,75,85. 996 DATAB, 177, 8, 208, 8, 162, 119 , 168, 834 986 DATAB, 32, 185, 62, 56, 162, 1 780 DATA73,32,32,32,32,32.32.0. 779 DATANO, 65, 41, 32, 65, 83, 57 760 DAIA32,32,32,32,32,32,32,32 750 DATA32, 32, 32, 0, 13, 13, 32, 3 DATA89, 82, 63, 63, 63, 32, 83 DATA32, 32, 32, 48, 67, 41, 32 DATA13,13,13,32,32,32,32,32 DATA78, 78, 8, 134, 5, 132, 6, 1 DATA32, 32, 32, 32, 32, 32, 32, 40 DATA13, 32, 32, 32, 32, 32, 32 DATA32,88,82,73,78,84,69 DATA32, 84, 18, 162, 35, 168, DATA168, 22, 32, 64, 18, 162, 1 DATA237, 160, 17, 32, 105, 22 DATA162, 96.160.22, 32.84 DATAO. 162, 298, 168, 17, 32 DATA75, 78, 64, 73, 78, 85, 65 DATASS. 67, 69, 32, 84, 79, 32 DATA32, 0, 13, 13, 32, 32, 32, 3 DATA68, 68, 32, 87, 79, 82, 58 DATA32, 32, 32, 32, 32, 48, 65 DATA198, 17, 291, 68, 298, 299 DATA78, 186, 17, 201, 67, 288 DATA18, 32, 165, 22, 162, 94 17469, 87, 84, 32, 79, 80, 84 11A32, 32, 32, 32, 32, 83, 69 TALS. 13, 13, 32, 32, 32, 32, 32 1[A11, 32,69,88,73,81,13 TA11,173,96,22,73,1,141 TASY. 22, 73, 1, 141, 54, 22 (A173, 95, 22, 73, 1, 141, 9 AZZ. 75, 186, 17, 281, 55, 2 A185, 22, 32, 228, 255, 28

041455,281,32,208,249, 918 DATA18, 32, 105, 22, 95, 79, 78 928 DATA8,79,70,70,8,162,228,160,769 950 DATA232, 192, 4, 208, 244, 138 940 DATAG. 185. 224, 18, 157, 51, 3 930 DATA18, 32, 105, 22, 32, 94, 19 1210 DATALY1.62, 255, 88, 96, 162 578 DATA168.32.186.255,32.192 128 DATA96, 147, 87, 79, 82, 68, 3 118 DATA32, 161, 20, 169, 0, 141. 248 DATA245, 282, 169, 13, 32, 21 238 DATA255, 157, 51, 3, 232, 281 39 DATAS, 238, 108, 22, 172, 100 DATA32. 201, 255, 169, 146, 13 DATA183,255,201.0,208,207 DATA160.3.32, 189, 255, 169 DATA240, 22, 189, 146, 22, 56 DATA2, 230, 4, 165, 4, 205, 19 DATA32, 195, 255, 38, 284, 25 DATA210,255,230,3,288,2 DATA255, 177, 3, 141, 62, 255 DATA22, 133, 4, 160.0, 120, 1 DATA19, 32, 105, 22, 162, 0, 3 DATA233.0.157,146,22,76 DATA227, 174, 99, 22, 232, 23 DATA208, 234, 165, 3, 205, 19 DATA22, 32, 101, 19, 224, 0, 2 DATAS7, 22, 162, 18, 169, 19 DATA3, 205, 198, 22, 208, 223 DATA3, 160. 9, 145, 3, 230, 3 160, 1085 TABB, 89, 13, 13, 0, 169, 1. TA32.68,73,82,69.67,84 TA22, 157, 146, 22, 232, 18 IAB3, 44, 87, 147, 83, 65, 8 TA165,4,205,139,22,206 (A78.73,76,65,78,65.77

1540 DAIAZ8.169.8,32,195.255, 32,204.915 1550 DAIAZ55,96,147.82,63,65, 1520 047416.32.140.20,281.55, 144.237,855 1530 0474201.91,176,233.162.0 ,76.52,991 1500 DATAZ40,3,32,161,20,32,2 25,255,960 1510 DATAZ40,23,32,130,20,192 ,0,208,845 1480 DA[A91, 175, 11, 157, 51, 3, 2 32, 224, 945 98.57,703 1470 DATA32,140,20,201,65,144 32,208,1094 1448 DATA1,200,152,1,208,245 298.8.873 183,255 2,192,255,1367 1588 DATA96,32,287,255,72,32 1578 DATA160, 255, 32, 186, 255, 3 1560 DATABY, 65, 88, 84, 13, 13, 0, 1450 DATA208,241,162,0,32,225 1410 DATA169,147,32,210,255, 62,8,32,1015 1400 DATA160,20,32,105,22,32 1390 DAIA255.201,0.200,228,98 1370 DATA3, 32, 189, 255, 169, 8, 1 1368 DATAS, 32, 54, 19, 138, 162, 1350 DATA69.67,84,79,82,89,13 1340 DATA76,79,65,68,32,68,73 1330 DATA32, 195, 255, 32, 204, 25 1320 DATAZ.230,4,76,157,19,18 1318 DATA3.141,62,255,88,230 255, 145, 951 1300 DATAC 208, 19, 120, 141, 53, 1290 DATA133,4,160,0,32,130,2 1280 DATA198, 255, 169, 146, 133 1270 DATA105,22,32,210,19,152 260 DAJA32.63.0.162,192.160 DATAS4, 240, 18, 76, 29, 28. 2 DATA64, 32, 130, 20, 192, 8, 2 DATAO. 160. 0. 32. 207, 255. 2 DATA198.255,173,95,22,28 DATA32, 186, 255, 32, 192, 25 .

> 2130 DATAZZ, 174, 99, 22, 838, 232 238,100,1120

DATA248, 22, 189, 148, 22, 24

18 DATA22,145,3,200,185,50,

54,96,781 1618 DATAZBI,192,144,251,56,2 500 DATA201, 32, 176, 3, 24, 185,

33,128.96.1301 1620 DATA120,141,63,255,142,1 00,22,162,1005 25, 100, 891 718 DATA22, 24, 181, 3, 133, 3, 16 558 DATA133.4,141.102,22,16 548 DATAIN1.99, 22, 178, 189, 14 530 DATAG. 189, 51, 3, 56, 233, 69 580 DATAZZ. 208. 15. 200. 177, 3 DATA160, 21, 32, 185, 22, 95 DATA76, 212, 28, 238, 98, 22 DATA3.240,82.141.58.22. DATABB, 169, 13, 32, 218, 259 DATA13,13,8,32,8,141,62 DATA79,84.32.78,79,85,78 DATA62,255,88,32,128,22 DATA97, 22, 240, 3, 76, 26, 15 DATA105.0, 133, 4, 76, 198. DATA3, 208, 8, 204, 100, 22, . 22, 856 DATA3.141,101,22,232,185 DATA255, 169, 5, 32, 218, 259

1950 DATA73, 83,84, 32,58,89,47 .78,546 1960 DATAGE, 32,63,13,13,0,162 | 8,353 919 DATA75, 82, 68, 938 DATA198, 255, 96, 65, 68, 68 DATA240.11, 32, 228, 255, 20 DATA185, 22, 32, 284, 255, 32 255, 1130 DATAZZ, 169, 158, 32, 210, 25 Dete 37, 201, 78, 208, 248, 16 DATA-208.1.96,162,156,160 DATA169.8, 32, 180, 255, 173 DATA169, 4, 32, 195, 255, 32 DATA32, 128, 22, 169, 13, 32 DAIA32.120.20.162,4.32.2 DATA22 240, 42, 32, 171, 255 DATAZ40,4,32,64,17,96,17 DATA168, 21, 32, 185, 22, 173 DATA32, 204, 255, 162, 8, 32 , 32, 64, 79, 32 2150 DATA105.0.157.146.22,76. DATA111, 62, 255, 88, 96, 8, 8 DATA22, 157, 146, 22, 232, 18 . 958

2030 DATAES, 70, 84, 13, 13, 0, 129 2020 DATA79,32,82,79,79,77,32 2010 DATAZZY, 160, 21, 32, 185, 22 2000 DATA173.103,22,281,65,17 208.33,728 1970 DATA32,198,255,169,0,56, 237,198,1145 1980 DATA22,141,103,22,169,25 3,237,199,1146 162,925

2100 DATAZZ, 160, 8, 206, 108, 22. 2090 DATA208,2,198,4,198,3,78 2080 DATA3, 205, 101, 22, 248, 11, 2070 DATA165, 4, 205, 182, 22, 208 2050 DATA199, 22, 133, 4, 238, 100 2850 DATAS, 177. 3, 172.184.22.1 160,878 DATA63,255,173,198,22,13

2300 DATAZZ, 224, 22, 225, 22 252 Deles, 55. 55, 551, 55, 555 2280 DATAZZ, 216, 22, 217, 22, 218 2270 DATA22,212,22,213,22,214 2210 DATA2,230,6,76,111,22,96 2250 DATA22, 208, 22, 209, 22, 216 2250 DATA22, 204, 22, 205, 22, 206 2248 DATASS, 200, 22, 201, 22, 202 2230 04143,232,32,210,255,76, 2220 DATAO. 236, 100, 22, 240, 10, 2200 DATAZYO, 12, 32, 218, 255, 23 90 DATAS, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 17

YOUR COMMODURE march 1985